Application No.: 10/782,574

Docket No.: JCLA12196-R

In The Claims:

Please amend the claims as follows.

Claim 1. (currently amended) An optical projection system, capable of receiving a first light beam, a second light beam, and a third light beam, the projection system comprising:

a color-combination prism, having a first surface, a second surface and a third surface, allowing the first, second and third light beams to respectively enter the first, second and third surfaces, so as to form a mixed beam to emit out from another surface;

a projection lens set, for receiving the mixed beam for projection;

a first wire grid polarizer (WGP), a second WGP and a third WGP, for respectively receiving and polarizing the first, second and third light beams and respectively reflecting the polarized beams to a first liquid crystal reflection panel, a second liquid crystal reflection panel and a third liquid crystal panel, wherein the first, second and third liquid crystal reflection panels are respectively positioned substantially parallel to the first, second and third surfaces of the color combination prism, and wherein the first, second and third liquid crystal reflection panels respectively receive the polarized light beams from the first, second and third WGPs and reflect polarized light beams to the first, second and third surfaces of the color combination prism; and

a first polarizer, a second polarizer and a third polarizer, respectively disposed in a light path of each of the first, second and third light beams such that the first, second and third light beams are respectively incident to the first, second and third WGPs and are respectively reflected by the first, second and third WGPs to the first, second and third liquid reflection panels.

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Claim 2. (previously presented) The optical projection system of claim 1, wherein each of

the first, second and third WGPs allows a light component with a first polarization state to pass,

and reflects a light component with a second polarization state.

Claim 3. (previously presented) The optical projection system of claim 1, wherein each of

the first, second and third liquid crystal reflection panels includes a plurality of pixels, whereby

an incident polarization state with respect to each of the pixels can be changed to the desired

polarization state, so as to transmit the WGPs.

Claim 4. (previously presented) The optical projection system of claim 3, wherein the

first, second and third liquid crystal reflection panels provide an image pattern by changing the

polarization state.

Claim 5. (original) The optical projection system of claim 1, wherein the color-

combination prism includes an X-cube.

Claim 6. (original) The optical projection system of claim 1, further comprising a first

color splitter, to split a light source into a first primary color beam and a color mixing beam.

Claim 7. (original) The optical projection system of claim 6, further comprising a second

color splitter, to split the color mixing beam into a second primary color beam and a third

primary color beam.

Claim 8 (cancelled)

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Claim 9. (previously presented) The optical projection system of claim 1, wherein each of the first, second and third liquid crystal reflection panels includes a liquid crystal on silicon (LCOS) panel.

Claim 10. (currently amended) An optical projection method, for receiving a first light beam, a second light beam, and a third light beam and projecting, the method comprising:

providing a light source;

splitting the light source into different color light beams;

leading each of the color light beams to respectively enter a wire grid polarizer (WGP), which polarizes the light beam and reflects the polarized light beam to a liquid crystal reflection panel, wherein each of the liquid crystal reflection panel has panels have a plurality of pixels, and wherein the liquid crystal reflection panels includes a liquid crystal on silicon (LCOS) panel;

polarizing each of the color light beams transmitted to the respective WGP such that the WGP reflect the polarized color light beams to the respective liquid crystal reflection panels;

controlling each of the pixels of the liquid crystal reflection panel to have a polarization state with respect to the pixels for the reflection the polarized light beam received from the WGP; and

respectively leading light beams reflected form the liquid crystal reflection panels to directly transmit to the respective WGP and corresponding surfaces of a color combination prism where the light beams are combined into a mixed light beam, wherein each of the liquid crystal Application No.: 10/782,574

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reflection panels is positioned substantially parallel to the corresponding surface of the color

combination prism.

Claim 11. (original) The method of claim 10, wherein the WGP allows a light component

with a first polarization state to pass, and reflects a light component with a second polarization

state.

Claim 12 (cancelled)

Claim 13. (original) The method of claim 10, wherein the step of leading the light beams

reflected from the liquid crystal reflection panels includes using a color-combination prism to

obtain the mixed light beam.

Claim 14. (original) The method of claim 13, wherein the color-combination prism

includes an X-cube.

Claim 15. (previous presented) The optical projection system of claim 9, wherein the

color-combination prism includes an X-cube.